

ARDISAM, INC

PRODUCT EVALUATION

PRODUCT EVALUATED
CASTLE MODEL SERENITY

EVALUATION PROPERTY
ASTM E2515, ASTM E2779, CSA B415.1

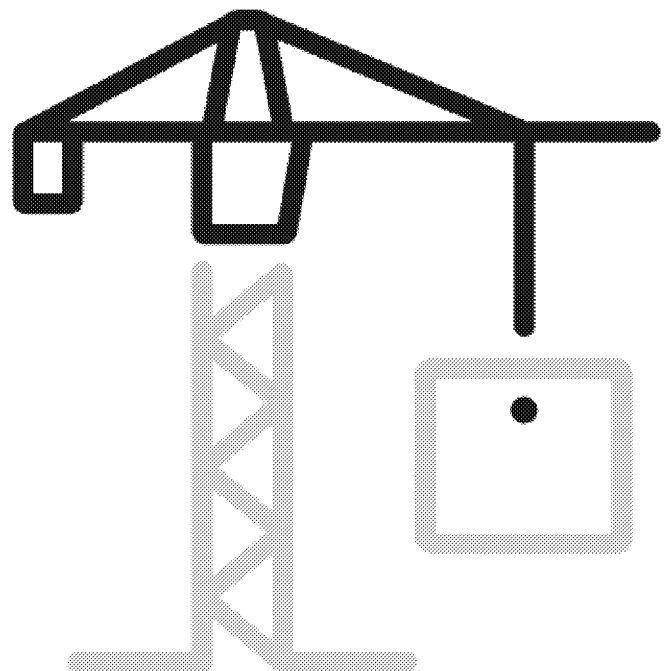
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PRODUCT EVALUATION FOR ARDISAM, INC

Report No.: 104591879MID-001

Date: 03/08/21

PRODUCT EVALUATION RENDERED TO:

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1 Introduction

Intertek Testing Services NA Inc. (Intertek) is conducting a product evaluation for Ardisam, Inc., on model Serenity pellet fuel room heater, to evaluate changes to audit drawings and review for 5-year EPA certification update. The evaluation is being conducted to determine if the listing report review will maintain compliance with ASTM E2515-17 - Standard Test Method for Determination of Particulate Matter Emissions Collected by a Dilution Tunnel, ASTM E2779-17 - Standard Test Method for Determining Particulate Matter Emissions from Pellet Heaters, and CSA B415.1-10 - Performance Testing of Solid-Fuel-Burning Heating Appliances.

2 Product and Assembly Description

2.1. Product Description:

The model Serenity Pellet Fuel Room Heater is constructed of sheet steel. The outer dimensions are 20.25-inches deep, 34-inches high, and 18.25-inches wide. The unit has a door located on the front with a viewing glass.

3 Reference Documents

As part of this evaluation, Intertek has directly or indirectly used the following referenced documents:

- ◆ ASTM E2515-17
- ◆ ASTM E2779-17
- ◆ CSA B415.1-10
- ◆ Spec ID No. 36796
- ◆ Intertek Testing Report No. 102366578MID-002R1 dated December 22, 2015, revised March 5, 2021

4 Evaluation Method

Ardisam, Inc. requested a review of the emissions report (Spec ID #36796) to be able to reapply for another 5-year certification with the U.S. EPA. In addition to this review, Ardisam revised three drawings to better clarify the vent connector and back panel of model Serenity.

The revised vent connector drawing is showing a reduction of 5 mm to the outer diameter of the collar. The material thickness and length remain the same.

The revised back panel is showing a reduction of 15 mm of the total height of the panel. All ports and vents in the panel remain the same.

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5 Conclusion

Intertek has conducted this product evaluation for Ardisam, Inc., on model Serenity pellet fuel room heater, to evaluate changes to audit drawings and review for 5-year EPA certification update. The evaluation was conducted to determine if the listing report review will maintain compliance with ASTM E2515-17 - Standard Test Method for Determination of Particulate Matter Emissions Collected by a Dilution Tunnel, ASTM E2779-17 - Standard Test Method for Determining Particulate Matter Emissions from Pellet Heaters, and CSA B415.1-10 - Performance Testing of Solid-Fuel-Burning Heating Appliances.

Based on the information contained and referenced herein, it is Intertek's professional judgment based on sound engineering principles that the following is true:

- ✦ The vent connector utilizes a baffle plate that is welded to the vent tube, which creates restriction in the venting. A reduction of 5 mm in diameter for the vent connector will not have any effect on the safety or performance of the model Serenity.
- ✦ The reduction of 15 mm in height for the back panel of the model Serenity has been deemed compliant. All of the ports and vents remain the same.
- ✦ No other changes have been made since the Serenity was originally tested in 2016; therefore, this model remains compliant with the referenced standards.

INTERTEK TESTING SERVICES NA LTD.

Reported by:

Brian Ziegler
Technical Team Leader - Hearth

Reviewed by:

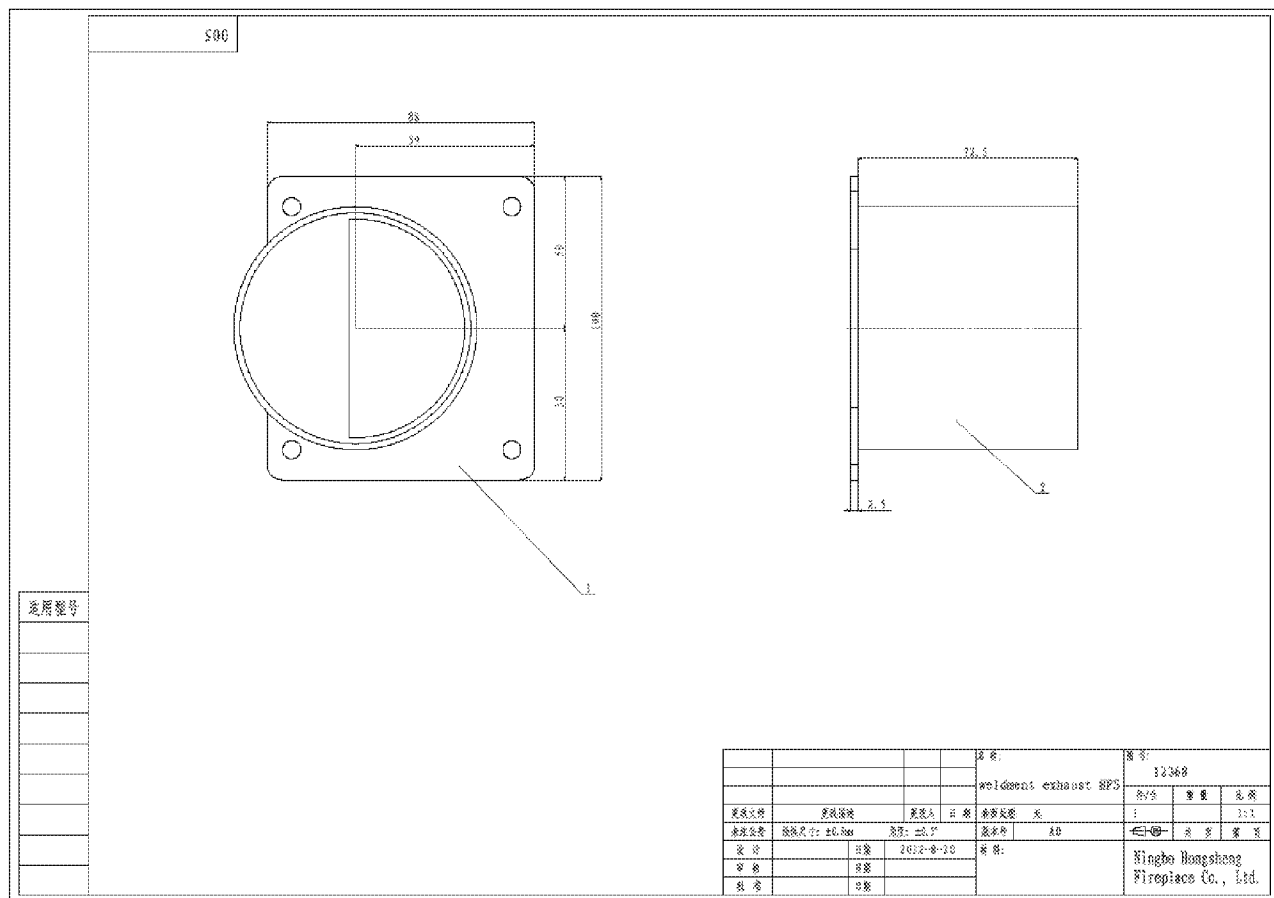

Ken SlaterKen Slater
Associate Engineer - Hearth

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6 APPENDIX

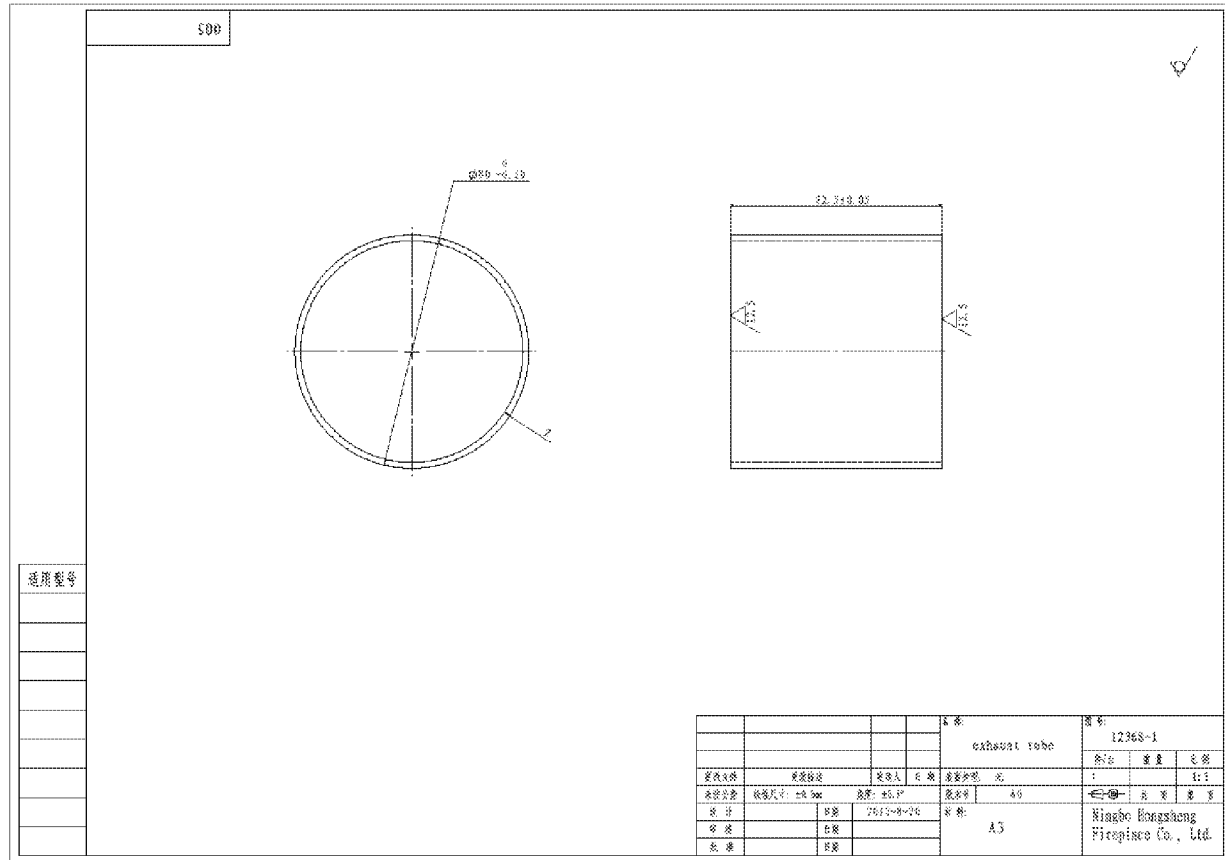


Original vent connector 1

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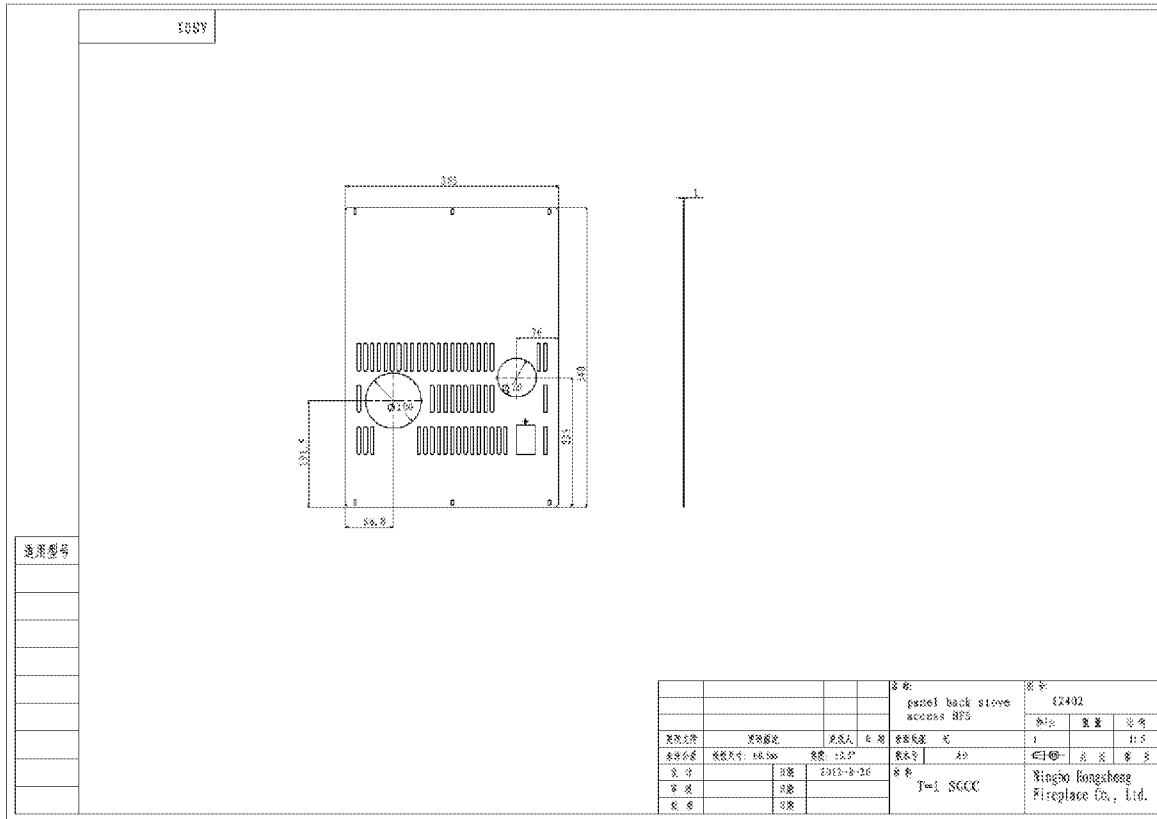
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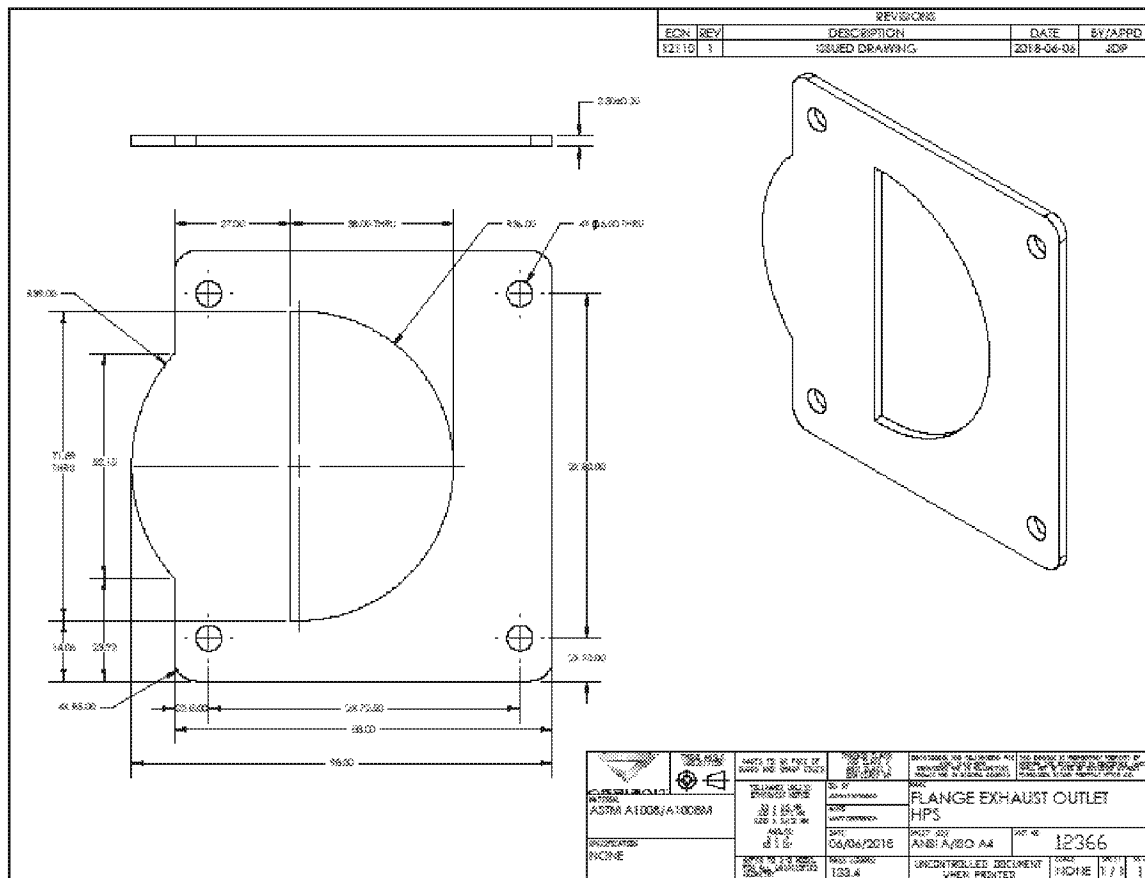


Original back panel

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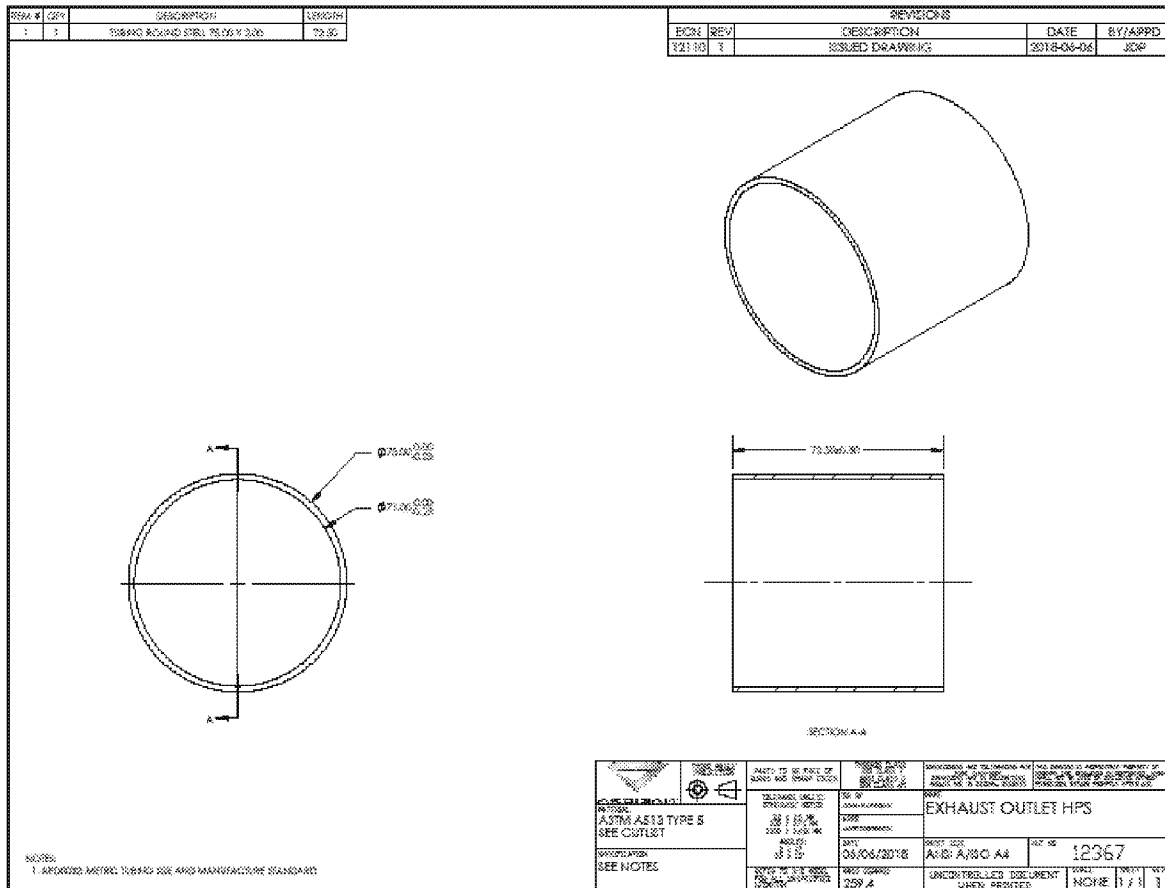


Updated Vent connector 1

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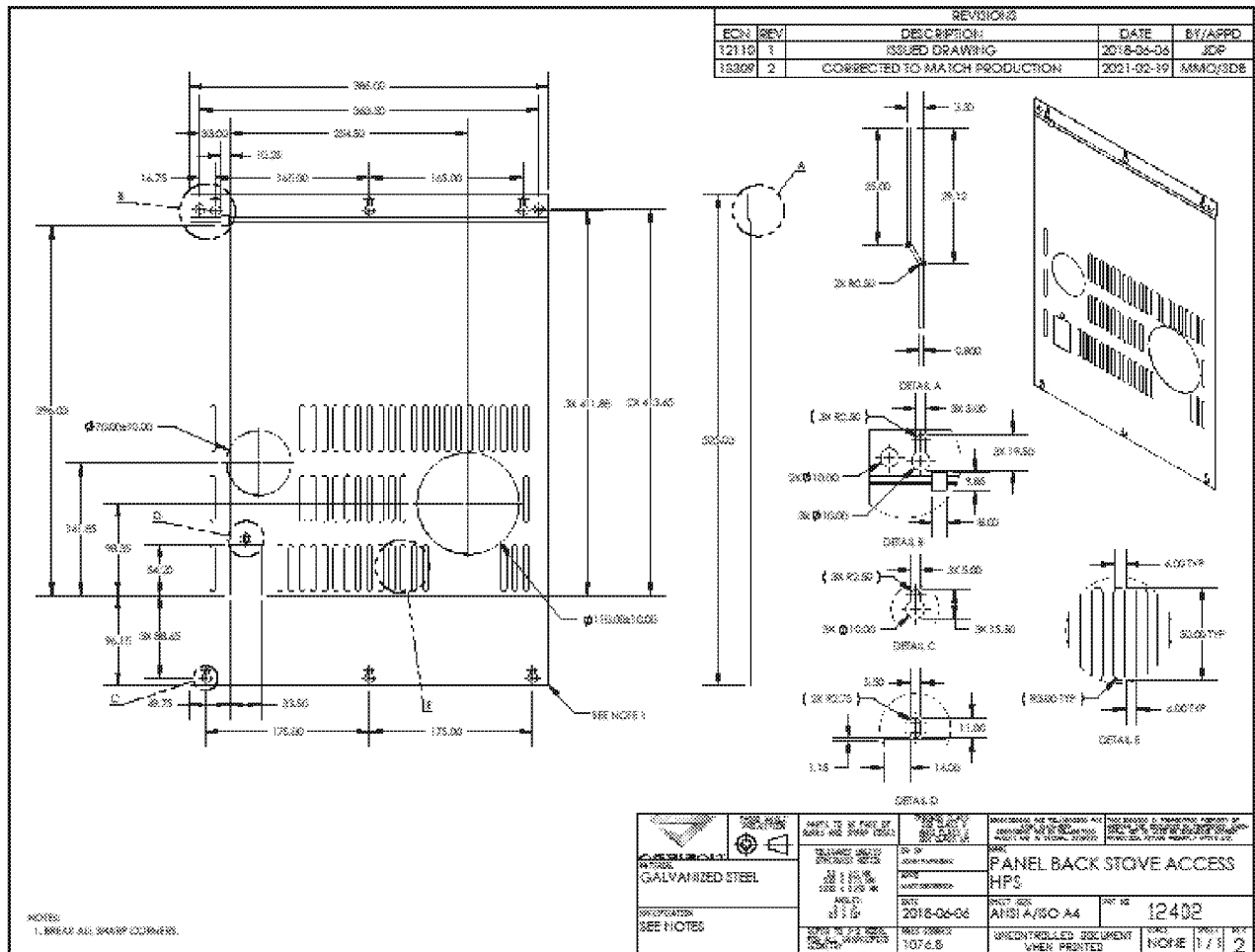


Updated Vent Connector 2

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Updated Back Panel



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DATE	SUMMARY	REPORTER	REVIEWER
March 8, 2021	Original	Brian Ziegler	Ken Slater